

Mineral Industry Surveys

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MANGANESE IN JULY 2006

On a gross-weight basis, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 32,100 metric tons (t) in July 2006, which was a 3% decrease compared with that in June 2006, according to the U.S. Geological Survey. Corresponding industry stocks of ore at the end of the month were 197,000 t, which was an 11% decrease from those at the end of June 2006. These data include estimates for annual respondents on the basis of 2005 data.

The following comparisons of trade data were made on the basis of manganese content (table 1). The data for June 2006 tabulated in this report indicate that the total exports of 854 t were 32% higher than those of the prior month, owing primarily to increases in exports of ferromanganese and manganese ore. Manganese imports were 79,400 t, which was an increase of 49% compared with those of May 2006. This increase was primarily attributable to increases in manganese ore imports.

Ferroalloy Prices, manganese content

	High-carbon ferromanganese ¹ (dollars per gross ton)	Medium-carbon ferromanganese ¹ (cents per pound)	Silicomanganese ¹ (cents per pound)	Manganese metal ² (cents per pound)
July 6	1,025.00-1,075.00	72.00-75.00	42.00-45.00	74.00-77.00
July 13	1,025.00-1,075.00	72.00-75.00	42.00-45.00	74.00-77.00
July 20	1,025.00-1,075.00	72.00-75.00	42.00-45.00	74.00-77.00
July 27	1,025.00-1,075.00	72.00-75.00	42.00-45.00	74.00-77.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
July 6	1.85-1.95	2.30-2.40
July 13	1.85-1.95	2.30-2.40
July 20	1.85-1.95	2.30-2.40
July 27	1.85-1.95	2.30-2.40

¹Source: Platts Metals Week, dealer import price.

²Source: Ryan's Notes, North American transaction price.

³To determine dollars per metric ton, multiply the manganese content percentage by the price.

TABLE 1
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2005:						
June	19,500	41,300	60,800	272	1,550	1,820
January-June	145,000	245,000	390,000	3,470	6,990	10,500
2006:						
January	20,300	25,600	45,900	46	1,710	1,760
February	27,500	52,600	80,100	87	1,170	1,260
March	4,970	47,400	52,300	63	1,660	1,720
April	30,300	34,800	65,200	25	661	686
May	7,140	46,300	53,400	40	609	648
June	26,800	52,600	79,400	101	753	853
Total	117,000	259,000	376,000	362	6,560	6,920

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

Source: U.S. Census Bureau.

TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JUNE 2006¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	3,950	2,610	\$2,520,000	12,300	8,180	\$7,830,000
Canada	--	--	--	22	13	24,600
France	--	--	--	11	7	3,620
Georgia	--	--	--	16,900	11,800	11,400,000
Korea, Republic of	2,800	1,730	2,510,000	12,800	8,210	9,690,000
Mexico	1,500	980	1,050,000	8,230	5,390	5,700,000
Netherlands	--	--	--	21	13	24,000
Norway	3,140	2,030	2,070,000	36,800	22,600	31,900,000
Russia	3,190	1,530 ³	2,360,000	3,190	1,530	2,360,000
Saudi Arabia	1,010	499 ³	422,000	1,010	499	422,000
South Africa	21,900	14,000	14,800,000	84,700	55,400	54,600,000
Total	37,500	23,300	25,700,000	176,000	114,000	124,000,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

³All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JUNE 2006¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
Canada	--	--	--	20	16	\$23,500
China	2,980	2,430	\$3,240,000	8,330	7,100	10,400,000
Japan	--	--	--	1,500	1,210	1,510,000
Korea, Republic of	--	--	--	6,310	5,150	6,090,000
Mexico	839	681	876,000	5,100	4,110	5,230,000
Norway	136	110	179,000	709	578	879,000
South Africa	459	425	653,000	2,080	1,910	3,020,000
Total, low carbon	4,410	3,650	4,950,000	24,000	20,100	27,100,000
Medium carbon, (m.c.) 1%-2% C:						
Brazil	--	--	--	1,540	1,230	1,480,000
Canada	38	31	45,600	77	61	86,800
China	--	--	--	1,790	1,500	1,670,000
Korea, Republic of	3,300	2,660	3,040,000	8,600	6,910	7,010,000
Mexico	1,920	1,550	1,280,000	9,270	7,420	7,030,000
Norway	139	113	165,000	999	820	1,160,000
South Africa	5,420	4,400	4,690,000	20,400	16,600	15,800,000
Total, m.c., 1%-2% C	10,800	8,750	9,220,000	42,600	34,500	34,300,000
Medium carbon, 2%-4% C:						
Brazil	--	--	--	19	14	19,300
Georgia	--	--	--	1,470	1,160	637,000
Total, m.c., 2%-4% C	--	--	--	1,490	1,170	657,000
High carbon:						
Australia	--	--	--	4,000	2,940	2,240,000
Brazil	--	--	--	4,510	3,560	2,220,000
Canada	--	--	--	97	58	61,200
China	2,390	1,820	1,500,000	2,410	1,830	1,530,000
France	--	--	--	1,500	1,170	764,000
Mexico	--	--	--	26	20	29,300
Norway	21	18	25,400	21	18	25,400
South Africa	15,800	12,100	9,260,000	84,200	65,100	46,000,000
Ukraine	--	--	--	124	95	70,800
Total, high carbon	18,200	13,900	10,800,000	96,900	74,800	52,900,000
Grand total	33,400	26,300	25,000,000	165,000	131,000	115,000,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN JUNE 2006^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	Year to date		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Brazil	285	114	\$111,000	1,730	784	\$227,000
China	--	--	--	1,220	360	62,900
Mexico	--	--	--	2,950	1,030	353,000
Total	285	114	111,000	5,890	2,180	643,000
47% or more manganese:						
Australia	14,000	7,190	2,330,000	25,000	12,800	3,900,000
Belgium	70	51	59,200	213	153	179,000
Brazil	--	--	--	6,840	4,580	1,100,000
China	1,080	539	64,600	2,910	1,550	410,000
Gabon	--	--	--	134,000	68,700	13,400,000
Morocco	--	--	--	20	17	6,000
South Africa	35,700	17,300	3,340,000	35,700	17,300	3,360,000
Total	50,900	25,100	5,790,000	205,000	105,000	22,300,000
Grand total	51,100	25,200	5,910,000	211,000	107,000	23,000,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JUNE 2006¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Australia	1,230	\$1,770,000	3,710	\$5,180,000
Belgium	34	68,200	364	868,000
Brazil	86	50,900	163	111,000
China	643	680,000	8,350	8,910,000
Colombia	--	--	8	14,400
France	--	--	3	29,400
Germany	1	5,900	23	122,000
Japan	787	1,080,000	3,450	4,810,000
Mexico	--	--	150	183,000
Netherlands	1	4,290	1	4,290
United Kingdom	--	--	2	11,300
Total	2,780	3,660,000	16,200	20,200,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MAY 2006¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,620	\$1,920,000	6,410	\$8,240,000
South Africa	267	384,000	2,360	3,870,000
Total	1,880	2,310,000	8,770	12,100,000
Unwrought powder:				
China	180	227,000	1,180	1,480,000
South Africa	471	871,000	1,950	3,550,000
Total	651	1,100,000	3,130	5,030,000
Unwrought, other:				
China	199	334,000	697	1,140,000
Germany	--	--	352	654,000
South Africa	--	--	700	1,200,000
Spain	--	--	408	696,000
Total	199	334,000	2,160	3,700,000
Other manganese, wrought:				
Brazil	96	223,000	390	433,000
China	20	27,000	366	474,000
France	--	--	11	109,000
Jamaica	--	--	(³)	3,000
Mexico	20	34,700	39	57,600
Netherlands	--	--	15	30,800
United Kingdom	2	5,250	2	5,250
Total	138	290,000	822	1,110,000
Grand total	2,870	4,030,000	14,900	21,900,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

³Less than ½ unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 45 tons, all of which was from Canada, to give a year-to-date total of 524 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN JUNE 2006¹

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	June	Year to date	June	Year to date	June	Year to date	June	Year to date
Argentina	--	--	--	--	--	--	--	3
Australia	--	--	--	--	1	7	--	3
Belgium	--	--	--	--	--	--	35	775
Brazil	--	--	--	--	--	--	--	4
Canada	133	527	71	3,980	6	19	19	239
Chile	--	--	--	--	--	--	7	14
China	--	35	--	--	--	--	--	--
Colombia	--	--	--	--	--	--	--	7
Dominican Republic	--	9	--	--	--	--	--	--
France	--	--	--	--	--	--	50	95
Germany	17	38	--	--	--	--	16	98
Hong Kong	--	--	--	--	--	--	7	8
Indonesia	--	23	--	--	21	33	--	--
Japan	51	51	--	--	--	--	169	583
Korea, Republic of	--	--	--	--	--	--	--	(3)
Malaysia	--	--	--	--	--	--	--	3
Mexico	--	--	17	25	27	106	5	13
Netherlands	--	--	--	100	--	13	--	--
Poland	--	21	--	--	--	--	--	--
Portugal	--	--	--	--	--	--	--	2
Sweden	--	19	--	--	--	--	--	26
Trinidad and Tobago	--	--	--	--	--	--	--	1
Total	201	723	88	4,110	55	178	308	1,870

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes manganese-aluminum, some other alloys, and waste and scrap.

³Less than ½ unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 429 tons, of which 79 tons went to Canada, 347 tons went to Mexico, and 3 tons went to Indonesia, to give a year-to-date total of 1,680 tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JUNE 2006, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	Year to date		
				Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	670	\$853	China 569; \$768	3,870	\$3,690	China 1,920; \$2,540
Manganites, manganates, and other permanganates	--	--	--	16	34	Japan 16; \$34
Potassium permanganate	133	298	India 72; \$167	557	1,230	Czech Republic 254; \$548
Sodium permanganate	11	19	China 11; \$19	27	27	China 27; \$27
Sulfates, basket category, including manganese sulfate	1,840	1,120	China 1,480; \$698	23,800	13,600	China 12,600; \$5,700
Exports:						
Manganese dioxide	475	432	Canada 312; \$191	2,600	2,520	Canada 1,390; \$855
Manganese oxides other than dioxide	1,820	947	Canada 1,450; \$556	13,200	6,330	Canada 11,300; \$4,130
Manganites, manganates, and other permanganates	6	14	Canada 6; \$14	25	57	Canada 25; \$57
Potassium permanganate	109	274	United Kingdom 38; \$64	1,240	3,130	Spain 695; \$1,510
Sodium permanganate	141	305	Japan 60; \$150	664	2,280	Spain 304; \$1,310
Sulfates, basket category, including manganese sulfate	2,200	1,490	Canada 1,530; \$893	11,700	8,100	Canada 8,630; \$4,220

-- Zero.

¹Data are rounded to no more than three significant digits.

²For imports, Customs value; for exports, free alongside ship value.

Source: U.S. Census Bureau.